

3600.2406
October 25, 2002 (1:46PM)

Docket: AM-2406

Serial No. 09/138,429

Version with markings to show changes made

Please add the following new claims:

32. (New) The apparatus of claim 21, wherein said magnetic field at said substrate surface is substantially parallel to said substrate surface.

33. (New) The apparatus of Claim 21, wherein said annular magnet array comprises a plurality of permanent magnets.

34. (New) The apparatus of Claim 33, wherein said plurality of permanent magnets are magnetized parallel to a plane of said substrate surface

35. (New) The apparatus of Claim 21, wherein said annular magnet array is a Halbach array.

36. (New) The method of Claim 27 wherein said target comprises a material that is magnetic when sputter deposited in a substantially parallel magnetic field.

37. (New) The method of Claim 27, wherein said annular magnet array comprises an array of permanent magnets magnetized parallel to a plane of the surface of the substrate during sputtering.

38. (New) The method of Claim 27, wherein said annular magnet array comprises a Halbach array.

39. (New) The method of Claim 27, wherein said magnetic field at the surface of the

3600.2406
October 25, 2002 (1:46PM)

Docket: AM-2406

substrate is substantially parallel to the surface of said substrate.

40. (New) The method of Claim 27, wherein the substrate is processed to form a magnetic recording head.